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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,452	03/08/2001	Darrell Lee Ash	RFMI01-00214	6467
75	590 02/21/2003			
William J. Munck, Esq. Novakov Davis & Munck, P.C. 900 Three Galleria Tower			EXAMINER	
			KINKEAD, ARNOLD M	
13155 Noel Road Dallas, TX 75240			ART UNIT	PAPER NUMBER
- ,			2817	
			DATE MAILED: 02/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commons	09/801,452	ASH, DARRELL LEE				
, Office Action Summary	Examiner	Art Unit				
TI MAN INC DATE And the second state of the se	Arnold M Kinkead	2817				
The MAILING DATE of this communication app Period for Reply	lears on the cover sheet with the d	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>09 L</u>	December 2002 .					
	is action is non-final.					
3)☐ Since this application is in condition for allowa	ance except for formal matters, p	rosecution as to the merits is				
closed in accordance with the practice under a Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,7-9,14-16 and 18-20</u> is/are rejected.						
7)⊠ Claim(s) <u>3-6,10-13, and 17</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120	arrimer.					
13) Acknowledgment is made of a claim for foreign	o priority under 35 H S C & 110/s	a) (d) or (f)				
a) All b) Some * c) None of:	i priority under 55 G.O.O. 3 119(8	1)-(u) or (1).				
1. Certified copies of the priority documents	s have been received					
Certified copies of the priority documents Certified copies of the priority documents		on No				
Copies of the certified copies of the prior	• • • • • • • • • • • • • • • • • • • •					
application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	-				
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(e) (to a provisional application).				
a) The translation of the foreign language pro						
15) Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. §§ 120	and/or 121.				
Attachment(s)	. 🗖					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 		y (PTO-413) Paper No(s) Patent/Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,2,7,8,9,14-16, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Futterer(U.S. 4,560,951 of record)

The reference by Futterer discloses a SAW resonator(see figure 2, and summary) which shows a SAWR with two port differential construct. Note the inductors across the two port circuit (L5,L4), the inductors being designed/specified as balanced inductances, also, a tunable SAW resonator with varactors (D2,D1), albeit hyperabrupt types. The inductors are coupled to ground. The method steps being inherent.

The reference does not specifically disclose inductances provided only to offset stray capacitances. With regards this, it is an obvious design criteria that the inductance chosen for a particular frequency of operation, including the intrinsic stray capacitance and varactor diode tuning, albeit hyperabrupt type diodes, and thus all reactances must be considered to allow for the desired frequency of operation for the oscillator. The tuning out of the stray capacitance will be considered in achieving the total capacitive component for determining the balanced inductances required. The varactor diodes have a control voltage and do take part in setting the desired frequency.

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In light of the above it would have been obvious for one of ordinary skill in the art to have recognized that the balanced inductances required would have to take into effect the stray capacitances and include these in the total capacitive component to have operation at a particular frequency for the oscillator as desired.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1,2,7,8, and 9 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1,8,15,16,18,19 and 20 of copending Application No. 09/801,411.

Although the conflicting claims are not identical, they are not patentably distinct from each other because The claims presented in this application(' 452) are merely narrower in scope with regards to a two port SAW resonator circuit for providing low phase noise. The two port resonator is recited as a two port differential mode SAW resonator, ... with at least one inductance... and at least one variable tuning capacitance. The use of a differential type SAW resonator is notoriously well known in the art and allows for balanced design advantages.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Allowable Subject Matter

5. Claims 3-6, 10-13 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M Kinkead whose telephone number is 703-305-3486. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 703-308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7724 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Arnold M Kinkead Primary Examiner Art Unit 2817

Arnold Kinkead February 19, 2003